

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101049,586A
Source: JFW/6
Date Processed by STIC: 4-4-05

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,586A

DATE: 04/04/2005
TIME: 14:47:52

Input Set : A:\140140349U2.AMENDSEQ.TXT
Output Set: N:\CRF4\04012005\J049586A.raw

4 <110> APPLICANT: Blackshear, Perry J.
 5 Carballo-Jane, Ester
 6 Lai, Wi S.
 9 <120> TITLE OF INVENTION: TTP-RELATED ZINC FINGER DOMAINS AND
 10 METHODS OF USE
 12 <130> FILE REFERENCE: 14014.0349U2
 14 <140> CURRENT APPLICATION NUMBER: 10/049,586A
 15 <141> CURRENT FILING DATE: 2002-02-12
 17 <150> PRIOR APPLICATION NUMBER: PCT/US00/22199
 18 <151> PRIOR FILING DATE: 2000-08-14
 20 <150> PRIOR APPLICATION NUMBER: 60/148,810
 21 <151> PRIOR FILING DATE: 1999-08-13
 23 <160> NUMBER OF SEQ ID NOS: 48
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 326
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Homo sapiens
 32 <400> SEQUENCE: 1
 33 Met Asp Leu Thr Ala Ile Tyr Glu Ser Leu Leu Ser Leu Ser Pro Asp
 34 1 5 10 15
 35 Val Pro Val Pro Ser Asp His Gly Gly Thr Glu Ser Ser Pro Gly Trp
 36 20 25 30
 37 Gly Ser Ser Gly Pro Trp Ser Leu Ser Pro Ser Asp Ser Ser Pro Ser
 38 35 40 45
 39 Gly Val Thr Ser Arg Leu Pro Gly Arg Ser Thr Ser Leu Val Glu Gly
 40 50 55 60
 41 Arg Ser Cys Gly Trp Val Pro Pro Pro Pro Gly Phe Ala Pro Leu Ala
 42 65 70 75 80
 43 Pro Arg Leu Gly Pro Glu Leu Ser Pro Ser Pro Thr Ser Pro Thr Ala
 44 85 90 95
 45 Thr Ser Thr Thr Pro Ser Arg Tyr Lys Thr Glu Leu Cys Arg Thr Phe
 46 100 105 110
 47 Ser Glu Ser Gly Arg Cys Arg Tyr Gly Ala Lys Cys Gln Phe Ala His
 48 115 120 125
 49 Gly Leu Gly Glu Leu Arg Gln Ala Asn Arg His Pro Lys Tyr Lys Thr
 50 130 135 140
 51 Glu Leu Cys His Lys Phe Tyr Leu Gln Gly Arg Cys Pro Tyr Gly Ser
 52 145 150 155 160
 53 Arg Cys His Phe Ile His Asn Pro Ser Glu Asp Leu Ala Ala Pro Gly
 54 165 170 175
 55 His Pro Pro Val Leu Arg Gln Ser Ile Ser Phe Ser Gly Leu Pro Ser
 56 180 185 190

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57 Gly Arg Arg Thr Ser Pro Pro Pro Pro Gly Leu Ala Gly Pro Ser Leu
 58 195 200 205
 59 Ser Ser Ser Phe Ser Pro Ser Ser Ser Pro Pro Pro Pro Gly Asp
 60 210 215 220
 61 Leu Pro Leu Ser Pro Ser Ala Phe Ser Ala Ala Pro Gly Thr Pro Leu
 62 225 230 235 240
 63 Ala Arg Arg Asp Pro Thr Pro Val Cys Cys Pro Ser Cys Arg Arg Ala
 64 245 250 255
 65 Thr Pro Ile Ser Val Trp Gly Pro Leu Gly Gly Leu Val Arg Thr Pro
 66 260 265 270
 67 Ser Val Gln Ser Leu Gly Ser Asp Pro Asp Glu Tyr Ala Ser Ser Gly
 68 275 280 285
 69 Ser Ser Leu Gly Gly Ser Asp Ser Pro Val Phe Glu Ala Gly Val Phe
 70 290 295 300
 71 Ala Pro Pro Gln Pro Val Ala Ala Pro Arg Arg Leu Pro Ile Phe Asn
 72 305 310 315 320
 73 Arg Ile Ser Val Ser Glu
 74 325
 76 <210> SEQ ID NO: 2
 77 <211> LENGTH: 338
 78 <212> TYPE: PRT
 79 <213> ORGANISM: Homo sapiens
 81 <400> SEQUENCE: 2
 82 Met Thr Thr Thr Leu Val Ser Ala Thr Ile Phe Asp Leu Ser Glu Val
 83 1 5 10 15
 84 Leu Cys Lys Gly Asn Lys Met Leu Asn Tyr Ser Ala Pro Ser Ala Gly
 85 20 25 30
 86 Gly Cys Leu Leu Asp Arg Lys Ala Val Gly Thr Pro Ala Gly Gly
 87 35 40 45
 88 Phe Pro Arg Arg His Ser Val Thr Leu Pro Ser Ser Lys Phe Arg Gln
 89 50 55 60
 90 Asn Gln Leu Leu Ser Ser Leu Lys Gly Glu Pro Ala Pro Ala Leu Ser
 91 65 70 75 80
 92 Ser Arg Asp Ser Arg Phe Arg Asp Arg Ser Phe Ser Glu Gly Glu
 93 85 90 95
 94 Arg Leu Leu Pro Thr Gln Lys Gln Pro Gly Gly Gln Val Asn Ser
 95 100 105 110
 96 Ser Arg Tyr Lys Thr Glu Leu Cys Arg Pro Phe Glu Glu Asn Gly Ala
 97 115 120 125
 98 Cys Lys Tyr Gly Asp Lys Cys Gln Phe Ala His Gly Ile His Glu Leu
 99 130 135 140
 100 Arg Ser Leu Thr Arg His Pro Lys Tyr Lys Thr Glu Leu Cys Arg Thr
 101 145 150 155 160
 102 Phe His Thr Ile Gly Phe Cys Pro Tyr Gly Pro Arg Cys His Phe Ile
 103 165 170 175
 104 His Asn Ala Glu Glu Arg Arg Ala Leu Ala Gly Ala Arg Asp Leu Ser
 105 180 185 190
 106 Ala Asp Arg Pro Arg Leu Gln His Ser Phe Ser Phe Ala Gly Phe Pro
 107 195 200 205

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108 Ser Ala Ala Ala Thr Ala Ala Thr Gly Leu Leu Asp Ser Pro Thr
109 210 215 220
110 Ser Ile Thr Pro Pro Pro Ile Leu Ser Ala Asp Asp Leu Leu Gly Ser
111 225 230 235 240
112 Pro Thr Leu Pro Asp Gly Thr Asn Asn Pro Phe Ala Phe Ser Ser Gln
113 245 250 255
114 Glu Leu Ala Ser Leu Phe Ala Pro Ser Met Gly Leu Pro Gly Gly Gly
115 260 265 270
116 Ser Pro Thr Thr Phe Leu Phe Arg Pro Met Ser Glu Ser Pro His Met
117 275 280 285
118 Phe Asp Ser Pro Pro Ser Pro Gln Asp Ser Leu Ser Asp Gln Glu Gly
119 290 295 300
120 Tyr Leu Ser Ser Ser Ser His Ser Gly Ser Asp Ser Pro Thr
121 305 310 315 320
122 Leu Asp Asn Ser Arg Arg Leu Pro Ile Phe Ser Arg Leu Ser Ile Ser
123 325 330 335
124 Asp Asp
127 <210> SEQ ID NO: 3
128 <211> LENGTH: 492
129 <212> TYPE: PRT
130 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 3
133 Met Ser Thr Thr Leu Leu Ser Ala Phe Tyr Asp Val Asp Phe Leu Cys
134 1 5 10 15
135 Lys Thr Glu Lys Ser Leu Ala Asn Leu Asn Leu Asn Asn Met Leu Asp
136 20 25 30
137 Lys Lys Ala Val Gly Thr Pro Val Ala Ala Ala Pro Ser Ser Gly Phe
138 35 40 45
139 Ala Pro Gly Phe Leu Arg Arg His Ser Ala Ser Asn Leu His Ala Leu
140 50 55 60
141 Ala His Pro Ala Pro Ser Pro Gly Ser Cys Ser Pro Lys Phe Pro Gly
142 65 70 75 80
143 Ala Ala Asn Gly Ser Ser Cys Gly Ser Ala Ala Ala Gly Gly Pro Thr
144 85 90 95
145 Ser Tyr Gly Thr Leu Lys Glu Pro Ser Gly Gly Gly Thr Ala Leu
146 100 105 110
147 Leu Asn Lys Glu Asn Lys Phe Arg Asp Arg Ser Phe Ser Glu Asn Gly
148 115 120 125
149 Asp Arg Ser Gln His Leu Leu His Leu Gln Gln Gln Lys Gly Gly
150 130 135 140
151 Gly Gly Ser Gln Ile Asn Ser Thr Arg Tyr Lys Thr Glu Leu Cys Arg
152 145 150 155 160
153 Pro Phe Glu Glu Ser Gly Thr Cys Lys Tyr Gly Glu Lys Cys Gln Phe
154 165 170 175
155 Ala His Gly Phe His Glu Leu Arg Ser Leu Thr Arg His Pro Lys Tyr
156 180 185 190
157 Lys Thr Glu Leu Cys Arg Thr Phe His Thr Ile Gly Phe Cys Pro Tyr
158 195 200 205
159 Gly Pro Arg Cys His Phe Ile His Asn Ala Asp Glu Arg Arg Pro Ala

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160	210	215	220
161	Pro Ser Gly Gly Ala Ser Gly Asp Leu Arg Ala Phe Gly Thr Arg Asp		
162	225	230	235
163	Ala Leu His Leu Gly Phe Pro Arg Glu Pro Arg Pro Lys Leu His His		240
164	245	250	255
165	Ser Leu Ser Phe Ser Gly Phe Pro Ser Gly His His Gln Pro Pro Gly		
166	260	265	270
167	Gly Leu Glu Ser Pro Leu Leu Asp Ser Pro Thr Ser Arg Thr Pro		
168	275	280	285
169	Pro Pro Pro Ser Cys Ser Ser Ala Ser Ser Cys Ser Ser Ser Ala Ser		
170	290	295	300
171	Ser Cys Ser Ser Ala Ser Ala Ala Ser Thr Pro Ser Gly Thr Pro Thr		
172	305	310	315
173	Cys Cys Ala Ser Ala Ala Ala Leu Arg Leu Leu Tyr Gly Thr Gly		320
174	325	330	335
175	Gly Ala Glu Asp Leu Leu Ala Pro Gly Ala Pro Cys Ala Ala Cys Ser		
176	340	345	350
177	Ser Ala Ser Cys Ala Asn Asn Ala Phe Ala Phe Gly Pro Glu Leu Ser		
178	355	360	365
179	Ser Leu Ile Thr Pro Leu Ala Ile Gln Thr His Asn Phe Ala Ala Val		
180	370	375	380
181	Ala Ala Ala Ala Tyr Tyr Arg Ser Gln Gln Gln Gln Gln Gln Gly		
182	385	390	395
183	Leu Ala Pro Pro Ala Gln Pro Pro Ala Pro Pro Ser Ala Thr Leu Pro		400
184	405	410	415
185	Ala Gly Ala Ala Ala Pro Pro Ser Pro Pro Phe Ser Phe Gln Leu Pro		
186	420	425	430
187	Arg Arg Leu Ser Asp Ser Pro Val Phe Asp Ala Pro Pro Ser Pro Pro		
188	435	440	445
189	Asp Ser Leu Ser Asp Arg Asp Ser Tyr Leu Ser Gly Ser Leu Ser Ser		
190	450	455	460
191	Gly Ser Leu Ser Gly Ser Glu Ser Pro Ser Leu Asp Pro Gly Arg Arg		
192	465	470	475
193	Leu Pro Ile Phe Ser Arg Leu Ser Ile Ser Asp Asp		480
194	485	490	
196	<210> SEQ ID NO: 4		
197	<211> LENGTH: 276		
198	<212> TYPE: PRT		
199	<213> ORGANISM: Xenopus laevis		
201	<400> SEQUENCE: 4		
202	Met Glu Ile Ser Asn Asp Ser Leu Asp Leu Phe Ser Ser Phe Phe Pro		
203	1	5	10
			15
204	Gln Leu Ser Pro Pro Ala Asp Pro Glu Thr Pro Leu Leu Pro Ser Phe		
205	20	25	30
206	Ser Ala Pro Pro Lys His Leu Ser Leu Ser Ser Leu Arg Tyr Lys Thr		
207	35	40	45
208	Glu Leu Cys Ser Arg Tyr Ala Glu Ser Gly Phe Cys Ala Tyr Arg Asn		
209	50	55	60
210	Arg Cys Gln Phe Ala His Gly Leu Ser Glu Leu Arg Pro Pro Val Gln		

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211 65          70          75          80
212 His Pro Lys Tyr Lys Thr Glu Leu Cys Arg Ser Phe His Val Leu Gly
213          85          90          95
214 Thr Cys Asn Tyr Gly Leu Arg Cys Leu Phe Ile His Ser Pro Gln Glu
215          100         105         110
216 Arg Arg Glu Pro Pro Val Leu Pro Asp Asn Leu Ser Leu Pro Pro Arg
217          115         120         125
218 Arg Tyr Gly Gly Pro Tyr Arg Glu Arg Cys Arg Leu Trp Ser Ala Pro
219          130         135         140
220 Gly Gly Cys Pro Tyr Gly Ala Arg Cys His Phe Gln His Pro Lys Ser
221          145         150         155         160
222 Ala Arg Glu Thr Cys Arg His Phe Ala Ala Leu Gly Asp Cys Pro Tyr
223          165         170         175
224 Gly Ala Cys Cys His Phe Ser His Ser Pro Pro Leu Asp Arg Trp Gly
225          180         185         190
226 Ser Gly Thr Lys Asn Ser Ser Gly Ser Leu Ser Pro Ser Asp Pro Asp
227          195         200         205
228 Ser Asp Pro Asp Thr Pro Val Leu Ser Glu Ser Pro Ala Asn Asn Ala
229          210         215         220
230 Phe Ser Phe Ser Ser Leu Leu Leu Pro Leu Ala Leu Arg Leu Gln Ile
231          225         230         235         240
232 Leu Gly Asp Asp Asp Leu Pro Thr Ala Ser Asp Pro Leu Pro Gly Asp
233          245         250         255
234 Asp Thr Asp Leu Leu Pro Gly Asp Glu Glu Ile Ala Gln Gly Leu Leu
235          260         265         270
236 Ser Val Leu Gly
237          275
239 <210> SEQ ID NO: 5
240 <211> LENGTH: 327
241 <212> TYPE: PRT
242 <213> ORGANISM: Cyprinus carpio
244 <400> SEQUENCE: 5
245 Met Phe Glu Thr Ser Thr Asp Asn Leu Phe Leu Phe Pro Thr Glu Gly
246 1          5          10          15
247 Leu Asn Glu Ala Phe Phe Pro Glu Glu Gly Leu Ala Ser Gly Ser Leu
248          20          25          30
249 Ser Leu Ala Lys Ala Leu Leu Pro Leu Val Glu Ser Pro Ser Pro Pro
250          35          40          45
251 Met Thr Pro Trp Leu Cys Ser Thr Arg Tyr Lys Thr Glu Leu Cys Ser
252          50          55          60
253 Arg Tyr Ala Glu Thr Gly Thr Cys Lys Tyr Ala Glu Arg Cys Gln Phe
254          65          70          75          80
255 Ala His Gly Leu His Asp Leu His Val Pro Ser Arg His Pro Lys Tyr
256          85          90          95
257 Lys Thr Glu Leu Cys Arg Thr Tyr His Thr Ala Gly Tyr Cys Val Tyr
258          100         105         110
259 Gly Thr Arg Cys Leu Phe Val His Asn Leu Lys Glu Gln Arg Pro Val
260          115         120         125
261 Arg Gln Arg Cys Arg Asn Val Pro Cys Arg Thr Phe Arg Ala Phe Gly

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/04/2005
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; Xaa Pos. 1

Seq#:46; Xaa Pos. 2,3,4,5,6,7,8,9,11,13,16,17,19,21

Seq#:47; Xaa Pos. 2,3,4,5,6,7,8,9,11,12,13,14,15,17,18,19

VERIFICATION SUMMARY

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Input Set : A:\140140349U2.AMENDSEQ.TXT
Output Set: N:\CRF4\04012005\J049586A.raw

L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
M:341 Repeated in SeqNo=46
L:827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
M:341 Repeated in SeqNo=47